AMENDMENTS TO THE CLAIMS

1-39. (Canceled)

- 40. (Currently Amended) A method for determining an electrotherapeutic drug efficacy effect, comprising:
 - a) providing;
 - i) a patient exhibiting an abnormal <u>first</u> electroencephalogram; and
 - ii) a drug; and,
 - b) converting said <u>first</u> electroencephalogram to <u>abnormal quantified</u>
 neurophysiologic information, wherein said abnormal information
 eomprises at least one <u>first</u> multivariate outcome measurement,
 wherein said first multivariate outcome measurement is derived
 from a frequency band selected from the group consisting of delta,
 theta, alpha, and beta;
 - c) administering said drug to said patient;
 - d) obtaining a second electroencephalogram from said patient[['s]]

 follow up neurophysiologic information and converting said

 second electroencephalogram to at least one second multivariable
 outcome measurement, wherein said second multivariate outcome
 measurement is derived from a frequency band selected from the
 group consisting of delta, theta, alpha, and beta; and
 - e) comparing said abnormal information first multivariate outcome measurement with said second follow-up information multivariate outcome measurement wherein a difference is identified under conditions such that said multivariate measure is differentially changed.
- 41. (Currently Amended) A method according to claim 40, wherein said comparing comprising using uses a reference database.

42. (Currently Amended) A method according to claim 40, wherein said differentially changed difference between said first multivariate outcome measurement and second follow-up multivariate outcome measurement is proportional to the efficacy of said drug identifies an electrotherapeutic drugeffect.

43-49. (Canceled)

- 50. (New) The method of Claim 40, wherein said delta frequency band comprises a first set of univariate measurements selected from the group consisting of absolute power, relative power, coherence, and symmetry.
- 51. (New) The method of Claim 40, wherein said theta frequency band comprises a second set of univariate measurements selected from the group consisting of absolute power, relative power, coherence, and symmetry.
- 52. (New) The method of Claim 40, wherein said alpha frequency band comprises a third set of univariate measurements selected from the group consisting of absolute power, relative power, coherence, and symmetry.
- 53. (New) The method of Claim 40, wherein said beta frequency band comprises a fourth set of univariate measurements selected from the group consisting of absolute power, relative power, coherence, and symmetry.
- 54. (New) A method for determining drug efficacy, comprising:
 - a) providing;
 - i) a patient exhibiting a first electroencephalogram; and
 - ii) a drug; and,
 - b) converting said first electroencephalogram to at least one first multivariate outcome measurement, wherein said first multivariate outcome measurement is derived from a frequency band ranging from approximately 0.5 35 Hertz;
 - c) administering said drug to said patient;

- d) obtaining a second electroencephalogram from said patient and converting said second electroencephalogram to at least one second multivariable outcome measurement, wherein said second multivariate outcome measurement is derived from a frequency band ranging from approximately 0.5 35 Hertz; and
- e) comparing said first multivariate outcome measurement with said second multivariate outcome measurement wherein a difference is identified.
- 55. (New) A method according to claim 54, wherein said comparing comprising using a reference database.
- 56. (New) A method according to claim 54, wherein said difference between said first multivariate outcome measurement and second follow-up multivariate outcome measurement is proportional to the efficacy of said drug.
- 57. (New) A method for determining drug efficacy, comprising:
 - a) providing;
 - i) a patient exhibiting first electroencephalogram;
 - ii) a drug;
 - iii) a first symtomatic behavioral assessment; and
 - b) converting said first electroencephalogram to at least one first multivariate outcome measurement, wherein said first multivariate outcome measurement is derived from a frequency band selected from the group consisting of delta, theta, alpha, and beta;
 - c) administering said drug to said patient;
 - d) obtaining a second clinical assessment of said patient; and
 - e) comparing said first symtomatic behavioral assessment with said second symptomatic behavioral assessment wherein an improvement is identified.
- 58. (New) The method of Claim 57, further comprising, identifying said at least one multivariate outcome measurement in at least a second patient.

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- 59. (New) The method of Claim 57, wherein said drug is desiprimine.
- 60. (New) The method of Claim 57, wherein said multivariate outcome measurement is relative power monopolor posterior alpha.